

National Overview of Precast Concrete Pavement – FHWA

**Precast Pavement Panel Showcase
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Office of Pavement Technology**

Why Precast Concrete Pavement?

- **Maintenance of Traffic – Rapid renewal during nighttime and other off-peak periods;**
- **Long-Life Pavement Performance.**

Precast Concrete Pavement Systems

Prestressed & Jointed Systems



Advances in Precast Pavement

- **1970s – Emergency repairs with reinforced concrete panels (MI & VA);**
- **2000 – 2010:**
 - **FHWA / Univ. of Texas feasibility study for precast prestressed concrete pavement;**
 - **Development of both proprietary and non-proprietary precast pavement systems;**
 - **Jointed / doweled panels adapted for both intermittent repairs and replacement of longer pavement sections.**

Precast Concrete Pavement Applications

- Projects completed – CA, CO, DE, IA, IL, MI, MN, MO, NJ, NY, SC, TX, UT, VA.
- Projects awarded / under construction –
 - Caltrans I-680 near Oakland;
 - Florida Rte. 92 near Daytona;
 - Utah I-215 near Salt Lake City.
- Project planning / design – CA, IL, NY, MT.

Activities to advance knowledge and use of precast concrete pavement –

- **AASHTO Tech. Implementation Group ;**
- **Industry efforts –**
 - **National Precast Concrete Association;**
 - **Precast/Prestressed Concrete Institute;**
 - **American Concrete Pavement Association;**
 - **American Concrete Institute.**
- **Strategic Highway Research Program – SHRP 2 Rapid Renewal / Early implementation and longer-term activities.**

Thank you!

For more information –

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